DVI-D Uncompressed Video Fiber Optic Transmission

Model: LM-THF109D

USER MANUAL

Introduction

LM-THF109D is a set of extender device of high-definition video transmission which use fiber optic, just need a single fiber will be able to transmit 1080p signal over long distances, it support audio transmission. This product is ideal for large-screen display, conferencing systems and home entertainment and so on. The device has the ability of anti-interference, to ensure the stability of the signal.

Features:

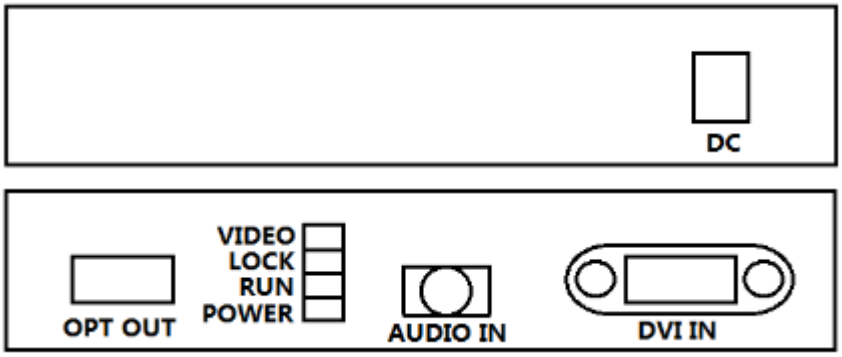
- Compliance with DVI1.0 standard,
- Support DVI signal input or output.
- HDCP1.2
- The Transmitter support the transmission of the DVI audio and the independent stereo
- The Receiver support the output of the DVI audio and the Independent stereo
- Support 1080p 60H, single mode fiber transmission up to 10 KM
- Real-time transmission of high-definition uncompressed digital DVI video signal, the video is clear and stable
- Built-in ESD protection circuitry, can effectively prevent electrostatic damage
- Site installation: easy, plug and play, no need to set
- Support serial unidirectional transmission, baud rate adaptive.

Package Contents:

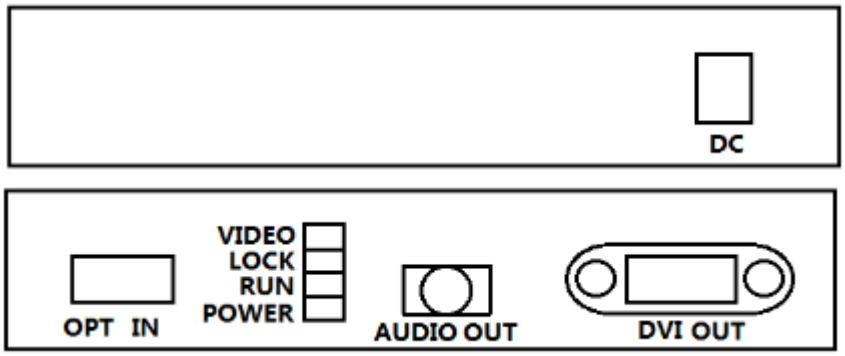
DVI fiber Transmitter	1pcs
DVI fiber Receiver	1pcs
Power Adapter 5V/2A	2pcs
User Manual	1pcs

Panel Descriptions

Transmitter



Receiver



Port Description

Transmitter	Function Description
DVI IN	DVI-D Input(support HDMI input)
Audio IN	Stereo audio input, when accessed to audio, DVI audio is not transmitted
DC/5V	Power input 5V2A
Fiber	Optical interface LC interface
Receiver	**Function Description**
OUTPUT	DVI Output(Support HDMI output)
Audio out	Stereo audio output, when inserted into the speakers, DVI no audio output
DC/5V	Power input 5V2A
Fiber	Optical interface LC interface

LED Description

LED indicator	Transmitter	Receiver

VIDEO	ON：Have video signal OFF：no video signal.
LOCK	ON：lock video signal OFF：lock signal error.
RUN	ON：system ok OFF：system error
POWER	ON：power correct OFF：no power input

Specifications

Operating Temperature Range	-5 to +35°C
Operating humidity range	5 to 90 % RH (no condensation)
Input video signal	0.5-1.0 volts p-p
Input DDC signal	5 volts p-p (TTL)
Support Video Format	1920*1080@60Hz 1920*1080@50Hz 1920*1080@30Hz 1920*1080@25Hz 1920*1080@24Hz 1080I@60Hz 1080I@50Hz 1280*720@60Hz 1280*720@50Hz
Audio output	Stereo
The maximum transmission distance	single mode single fiber 10KM
Optical interface	LC fiber optic interface
Optical fiber wavelength	1310nm FP
Input Power	DC 5V / 2A
Power Consumption	Transmitter 5W Receiver 5W
Dimensions H*W*D	136mm*130mm*30mm
Package Size	300*252*100mm
Weight	1.8kg

Installation

- Connect the DVI signal source to the DVI fiber optic Transmitter.
- Connect the stereo audio to the DVI fiber optic Transmitter.(If you have a need.)

- Connect the output DVI signal of the Receiver to the displayer(Such as high-definition TV, splicing screen, etc.).
- Connect the output audio of the Receiver to the audio equipment.(If you have a need.)
- Use the LC single mode fiber connect the transmitter and the Receiver.
- Power in the Transmitter and Receiver of the DVI fiber optic transmission.

Application Diagram